

What is claimed is:

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A2~~ 1. A composition in the form of an aqueous dispersion comprising at least one polyurethane-urea polymer that is functionalized with at least one hydrolyzed or hydrolyzable silyl group, wherein said composition is used in cosmetic application, and when said cosmetic application is a hair care composition, said hair care composition does not have a reshapable effect.

2. The composition of claim 1, said composition comprising the reaction product of:

(a) at least one isocyanate terminated polyurethane-urea prepolymer comprising the reaction product of (i) at least one polyisocyanate, and (ii) at least one polyol;

(b) at least one polyfunctional chain extender;

(c) at least one silyl containing component; and

(d) at least one hydrophilic component.

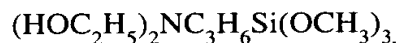
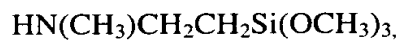
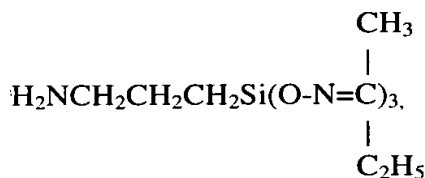
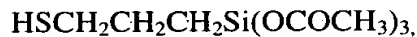
3. The composition of claim 2, wherein said polyisocyanate is a diisocyanate.

4. The composition of claim 2, wherein said polyol is a diol.

5. The composition of claim 2, wherein said polyol has a number average molecular weight between about 200 and 5,000.

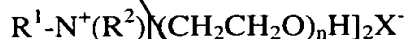
6. The composition of claim 2, wherein said chain extender is selected from the group consisting of water; ethylenediamine; 1,6-diaminohexane; piperazine; tris(2-aminoethyl)amine; amine terminated polyethers; adipic acid dihydrazide; oxalic acid dihydrazide; ethylene glycol; 1,4-butane diol; 1,8-octane diol; 1,2-ethanedithiol; 1,4-butanedithiol; 2,2'-oxytris(ethane thiol); di- and tri-mercaptopropionate esters of poly(oxyethylene) diols and triols; and mixtures thereof.

7. The composition of claim 2, wherein said silyl containing component is selected from the group consisting of:



8. The composition of claim 2, wherein said hydrophilic component is selected from the group consisting of (i) a compound containing an ionic group, (ii) a compound containing a moiety capable of forming an ionic group, or (iii) a nonionic water soluble group.

9. The composition of claim 8, wherein said hydrophilic component is a cationic compound having the following structure:



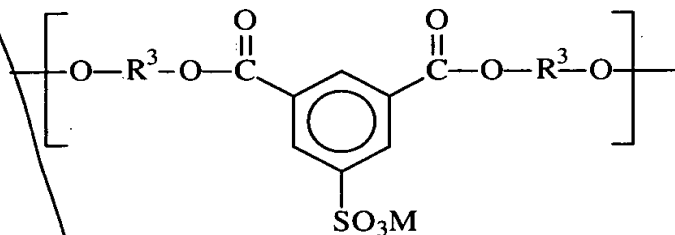
wherein  $\text{R}^1$  is  $\text{C}_1$  to  $\text{C}_{18}$  alkyl or  $\text{C}_6$  to  $\text{C}_{18}$  aryl or aralkyl optionally substituted in and/or on the chain by N, O, S and combinations thereof;

$\text{R}^2$  is hydrogen or  $\text{C}_1$  to  $\text{C}_{18}$  alkyl;

$n$  is an integer from about 1 to 200; and

$\text{X}$  is halogen, sulfate, methosulfate, ethosulfate, acetate, carbonate, or phosphate.

10. The composition of claim 8, wherein said hydrophilic component is a compound having the following structure:



5 wherein each  $\text{R}^3$  is independently a divalent aliphatic group having an average molecular weight of 200 to 600 comprising ether or ester functional groups selected from the group consisting of:

- $\text{CH}_2\text{CH}_2-(\text{OCH}_2\text{CH}_2)_n-$ ,  
- $\text{CH}(\text{CH}_3)\text{CH}_2-(\text{OCH}(\text{CH}_3)\text{CH}_2)_n-$ ,  
10 - $(\text{CH}_2)_4-(\text{O}(\text{CH}_2)_4)_n-$ ,  
- $(\text{CH}_2)_m\text{CO}-[\text{O}(\text{CH}_2)_m\text{CO}]_n-$  groups; and  
mixtures thereof;

where  $m$  is an integer from about 2 to 5;

$n$  is an integer from about 2 to 15; and

15 M is a cation selected from the group consisting of Na, H, K, and Li, or a primary, secondary, tertiary, or quaternary ammonium cation and mixtures thereof.

20 11. The composition of claim 1 exhibiting self-adhesion properties when coated and dried to a film of about 0.025 millimeter in thickness.

25 12. The composition of claim 1 further comprising ingredients selected from the group consisting of emollients, humectants, other film forming polymers, propellants, pigments, dyes, buffers, organic suspending agents, inorganic suspending agents, organic thickening agents, inorganic thickening agents, waxes, surfactants, plasticizers, preservatives, flavoring agents, perfumes, sunscreen agents, insect repellents, vitamins, herbal extracts, skin bleaching agents, hair bleaching agents, skin coloring agents, hair coloring agents, antiperspirant agents, deodorant agents, depilating agents, antifungal

agents, antimicrobial agents, antidandruff agents, antiacne agents, astringents, corn  
removers, callus removers, wart removers and combinations thereof..

*add*  
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